

OMC 8000

MENU

ENTERING MENU OF OMC8000

It is possible to enter the menu in two different ways:

1. by pressing the **OK** key while the display shows the opening screen of connected modules and holding it down for the duration of this opening screen (approx. 3 seconds). The **OK** key can be pressed already at the point of start-up
2. By pressing simultaneously (for approx. 3 seconds) keys **UP** a **DOWN** (arrows up and down) provided the PLC program is not running (LED **RUN** is not lit). Item Start is allowed only in this start menu

LANGUAGE OF MENU

The device menu is in 4 languages: English, Czech, German and French

Setting of LANGUAGE

Setting of language is performed by pressing the **OK** key. Selected language option is displayed inversely – blue text on yellow background. Language can be changed by using the **UP/DOWN** keys. Pressing the **ESC** key ends editing and returns you to the original selection. The OK key confirms the selection

OMC 8000

192.168.1.57

23.05.12 13:31:27

Time

Day

Date

13:31:27

Wednesday

23.05.12

SUBMENU RTC

Transfer to lower level by pressing the **OK** key, return to higher level by pressing the **LEFT** key. Pressing the **ESC** key terminates browsing through the menu

Setting TIME

Pressing the **OK** button opens editing. Projection format is blue text on yellow background. Edited digit is on red background. Change of value is done by **UP/DOWN** keys, keys **LEFT/RIGHT** edit the number scale. **OK** confirms selection, **ESC** returns to higher level without any changes.

Setting DAY

Same procedure as with LANGUAGE. Selecting the day of the week.

Setting DATE

Same procedure as with RTC.

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23.05.12 13:31:27

Language

English

RTC

Edit modules

Reread modules

Ethernet

FW update

SW backup

Start

About PLC

Disable

EDIT MODULES

This menu item allows assigning addresses to the connected modules. If no modules are connected, the screen is empty.

Changes made in this menu are irreversible.

The desired module is selected using the **UP/DOWN** keys. LED **RUN** flashes on the selected module. By pressing the **OK** key the selected module is activated to be ranked into the list and it is displayed inversely on the display. By pressing the **UP/DOWN** keys the module is placed in the desired position.

By pressing the **OK** key again the module is deactivated.

**ESC** terminates the process.

SETTING OF REREAD MODULES

the list of modules and uploads it again. The rest of the procedure is identical as above.

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192.168.1.57

23.05.12 13:31:27

Use DHCP

Yes

IP address

192.168.1.57

Subn. mask

255.255.255.0

D.gateway

192.168.1.1

MAC add.

B4.2A.39.00.00.03

SUBMENU ETHERNET

Options for network communication

Setting USE DHCP

Authorizes the use of DHCP server

Setting IP ADDRESS

Current IP address is shown. When editing is initialized, IP address which will be used is shown, provided HDCP server is not authorized.

Setting SUBN. MASK

Current subnet mask is shown. When editing is entered, subnet mask which will be used is shown, provided HDCP server is not authorized.

Setting D. GATEWAY

Current gateway is shown. When editing is entered, gateway mask which will be used is shown, provided HDCP server is not authorized.

Setting MAC Add.

Current MAC address. This menu item cannot be changed.

Action FW UPDATE

After pressing the OK key the PLC will enter a mode in which it expects a FW update. It is possible to exit this action only by switching the PLC off. If the SW uploader is not run, the original FW remains unmodified.

LM Flash Programmer - Build 1381

Configuration | Program | Flash Utilities | Other Utilities | Help

Quick Set

Manual Configuration - see below

Interface

Ethernet

Ethernet Adapter: 192.168.1.150 - Intel(R) PRO/1000 CT Network Conn

Client IP Address: 192.168.1.57

Client MAC Address: B4-2A-39-00-00-03

Texas Instruments

It is necessary to enter the information given on the PLC screen and a path to the file containing the FW.

LM Flash Programmer - Build 1381

Configuration | Program | Flash Utilities | Other Utilities | Help

Select .bin file

V:\Vyvoj\OMC 8000\OMC8000\Debug\enet\_lwip.bin

Browse

Options

Erase Method:

Erase Entire Flash - (faster)

Erase Necessary Pages - (slower)

Verify After Program

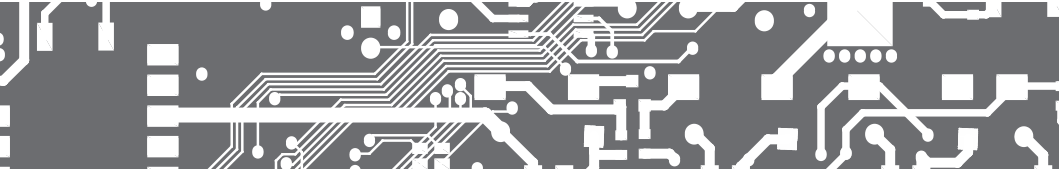
Reset MCU After Program

Program Address Offset: 0x

Program

Hardware Reset

Texas Instruments



SUBMENU SW BACKUP

Options for backing up of user program on an SD card.

Action BACKUP

A backup.plc file is created in the root address book of the SD card. It is a binary image of a user application. Its content is identical with the content of a file which can be found in a file located in this path:

[projects folder]\[project name]\C\[configuration]\R\[source] \image.bin

Action RESTORE

Restores a stored image

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23.05.12 13:31:27

Cold

Warm

SUBMENU START

It allows running a user program after an error or restoration. Before this action is taken, we recommend checking communication with modules by running EDIT MODULES

Action COLD

Identically with controlling in MULTIPROG SW it executes the start of the program along with setting all the variables.

Action WARM

Identically with controlling in MULTIPROG SW it executes the start of the program along with setting of only non-retain variables.

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192.168.1.57

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Backup

Restore

SUBMENU ABOUT PLC

This submenu does not contain any adjustable items. It contains all information about the device:

Identification HW

Description of ProConOS core

Version of ProConOS core

Version of FW

Serial number

MAC address

Contact information

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OMC 8000

01-12

ProConOS eCLR@Cortex-M3

2.2.0.20213

3.12 May 23 2012 09:09:19

Serial number

120120410789

MAC add.

B4.2A.39.00.00.03

ORBIT MERRET, spol s r. o.

Vodnanska 675/30

SUPPORT PROGRAMS FOR OMC 8000

Are located in the install file of the MULTIPROG SW in a subfolder Orbit\_Merret

OM FINDER

Program OM Finder was created for an easier configuration of resources in the MULTIPROG SW. This SW can detect all OMC 8000 devices which are available in the network and it displays basic information. By clicking on the selected PLC using the DRAG & DROP method (CTRL+V and CTRL+V) the IP address can be transferred to setting of the source.

Orbit Merret PLC Finder via UDP on vyvoj1.netbus local (192.168.1.150)

No.

IP Address

MAC Address

Application

1

192.168.1.54

B4-2A-39-00-00-05

OMC 8000 3.12 May 23 2012 09:09:19 S.N. 120120327015

2

192.168.1.57

B4-2A-39-00-00-03

OMC 8000 3.12 May 23 2012 09:09:19 S.N. 120120410789

Selected row

IP Address

MAC Address

Application

B4-2A-39-00-00-03

B4-2A-39-00-00-03

OMC 8000 3.12 May 23 2012 09:09:19 S.N. 120120410789

Local IP

192.168.1.150

Scan network

Exit

Performing LAN search for Orbit Merret PLC devices.

Prosim čekejte...

Resource settings for OMC\_8000

Communication

Type: TCP/IP

Parameter: 192.168.1.57

Version

Build settings: eCLR (Core 3.0.0)

Update Build settings behavior:

Automatic Update

Ask before Update

No Update

Online Update

Interval: 10 ms (Range 0..60000)

Compiler Options

Stack check

Array boundary check

OK

Cancel

Help

PLC READ PACKET

Program is designed to monitor UDP communication between PLC as a diagnostic tool

PLC UDP Packet Reader on 192.168.1.150

Local IP: 192.168.1.150

Start

Stop

UDP Packet Sender

Clear list

Status: Stopped

Port Number: 75000

Packet data as string

Check CRC

No.

Date & Time

IP Address

MAC Address

Packet Data

2

25.5.2012 09:45:42

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

3

25.5.2012 09:45:42

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

4

25.5.2012 09:45:42

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

5

25.5.2012 09:45:42

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

6

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

7

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

8

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

9

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

10

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

11

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

12

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

13

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

14

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

15

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

16

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

17

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

18

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

19

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

20

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

21

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

22

25.5.2012 09:45:43

192.168.1.54:58000

B4-2A-39-00-00-05

B4-2A-39-00-00-05 14:00:02:00:04:00

23

25.5.2012 09:45:43

192.168.1.57:58000

B4-2A-39-00-00-03

B4-2A-39-00-00-03 04:00:02:00:04:00

Packet Data:

\*\*\*0000

